

Recovery Plan Action Status

Plan Name: Lloyd's Mariposa Cactus

Plan Status: Final

Plan Date: 13-Apr-90

Lead Agency: USFWS

Lead Office: Austin Ecological Services Field Office

(490-0057)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	111	Enforce Federal and State laws	Not Started			National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Endangered Species Division, Texas Parks and Wildlife Department, USFWS Regional Office 2	Other: Law Enforcement	Internal Field Assistance, Internal Technical Assistance	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	112	Conduct Section 7 consultations	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Other: Information and Education, Other: Regulations	Internal Technical Assistance	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	113	Develop and implement management measures for plants on public lands	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	114	Identify protected areas on public lands	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	115	Seek cooperation of land managing agencies	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Other: Information and Education	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Costs refer to USFWS expenditures only.

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Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	116	Monitor populations on public land	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	121	Enforce laws for plants on private lands	Not Started			U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Endangered Species Division, Texas Parks and Wildlife Department, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	122	Conduct Section 7 consultations	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, USFWS Regional Office 2	Other: Information and Education, Other: Regulations	Internal Administrative, Internal Technical Assistance	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	123	Develop cooperation with private landowners	Not Started			U.S. Fish and Wildlife Service, Division of Realty, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Management: Other, Other: Information and Education	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	124	Develop and implement management plans for plants on private lands	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	125	Monitor populations on private lands	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	13	Protect plants in Mexico	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.

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Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	21	Inventory and make population size estimates	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	221	Study soil needs	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	222	Study water needs	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	223	Study seed dispersal	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	224	Study seedling establishment	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	225	Determine pollinators	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	226	Determine reasons for population changes	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	231	Determine habitat parameters	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.

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Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	232	Update management measures	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	3	Develop a trade management plan	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Management: Other	Internal Technical Assistance	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	41	Investigate propagation methods	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	3	42	Publish propagation techniques	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	5	Establish populations at botanical gardens	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	61	Increase public awareness	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, Texas Parks and Wildlife Department, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.
Lloyd's Mariposa cactus (Echinomastus mariposensis)	2	62	Seek support of public interest groups	Not Started			National Park Service, U.S. Fish and Wildlife Service, Endangered Species Division, Texas Parks and Wildlife Department, USFWS Regional Office 2	Work type not yet selected	Labor type not yet selected	Costs refer to USFWS expenditures only.